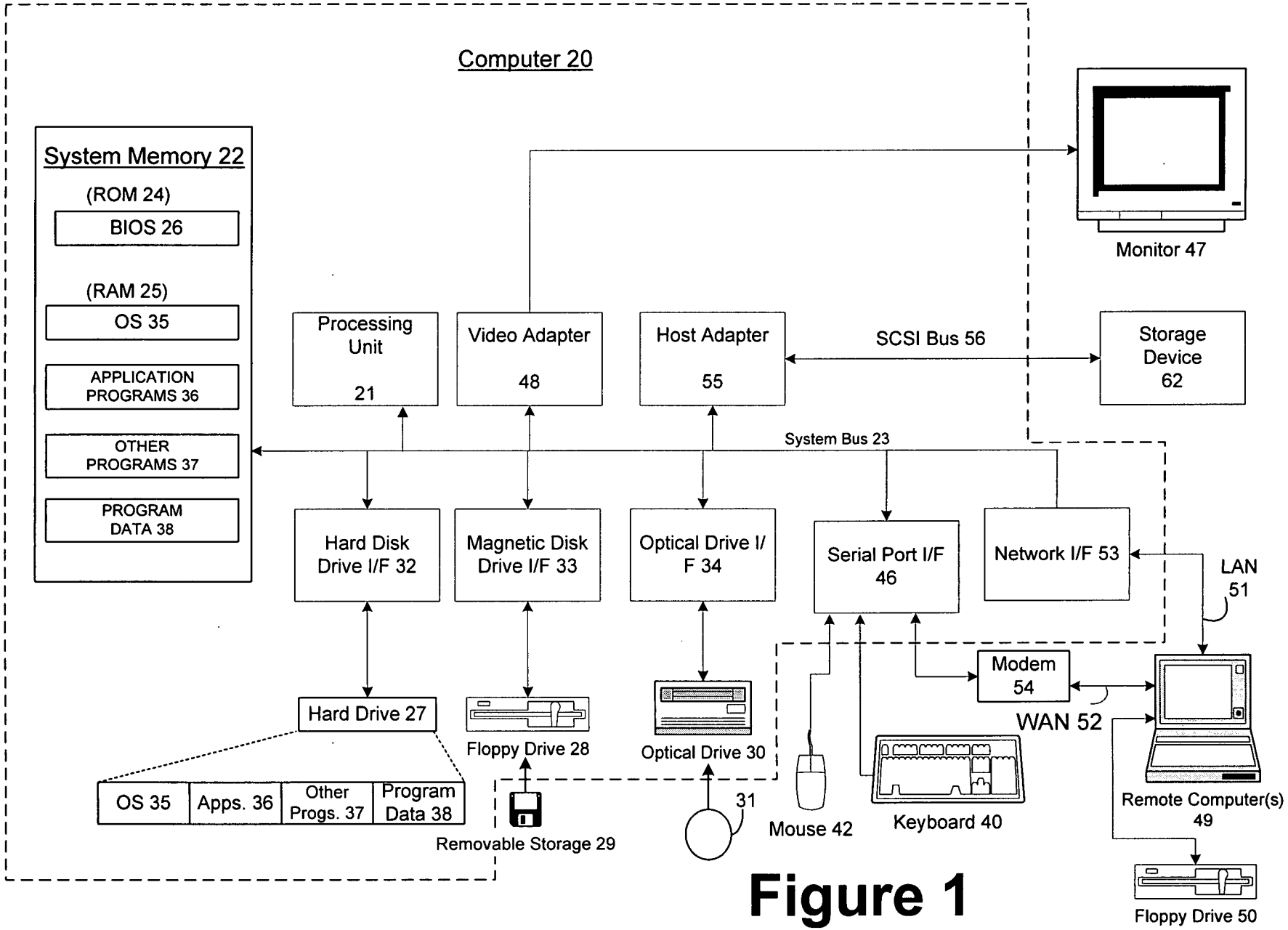
Computer 20
System Memory 22
(ROM 24)
BIOS 26
(RAM 25)
OS 35
APPLICATION PROGRAMS 36
OTHER PROGRAMS 37
PROGRAM DATA 38
Monitor 47
Processing Unit 21
Video Adapter 48
Host Adapter 55
SCSI Bus 56
Storage Device 62
System Bus 23
Hard Disk Drive I/F 32
Magnetic Disk Drive I/F 33
Optical Drive I/F 34
Serial Port I/F 46
Network I/F 53
LAN 51
Modem 54
WAN 52
Hard Drive 27
Floppy Drive 28
Optical Drive 30
OS 35
Apps. 36
Other Progs. 37
Program Data 38
Removable Storage 29
31
Mouse 42
Keyboard 40
Remote Computer(s) 49
Floppy Drive 50

Figure 1

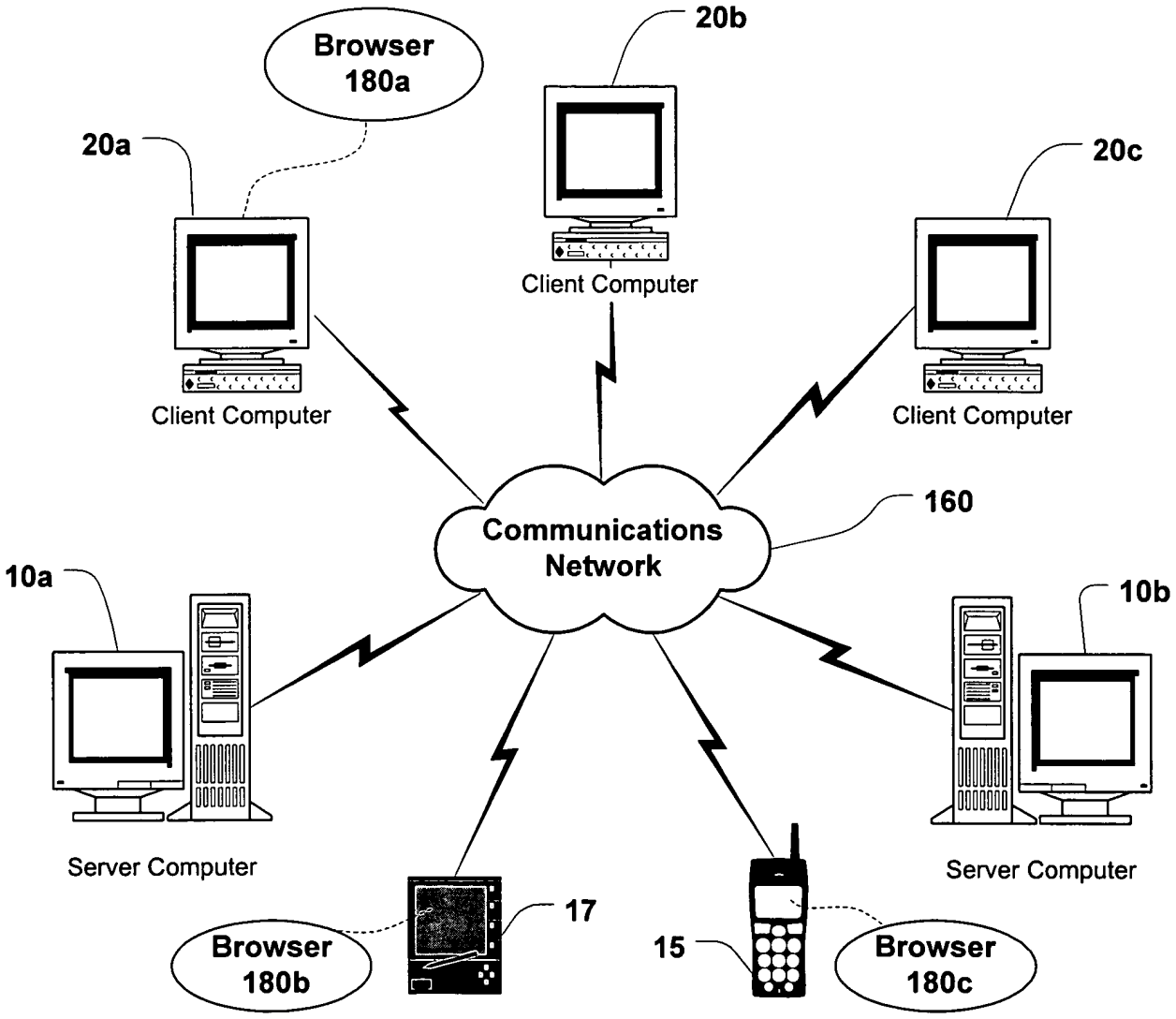
Browser
180a
20a
20b
Client Computer
20c
Client Computer
Client Computer
160
Communications
Network
10a
10b
Server Computer
Server Computer
17
Browser
180b
15
Browser
180c

Figure 2

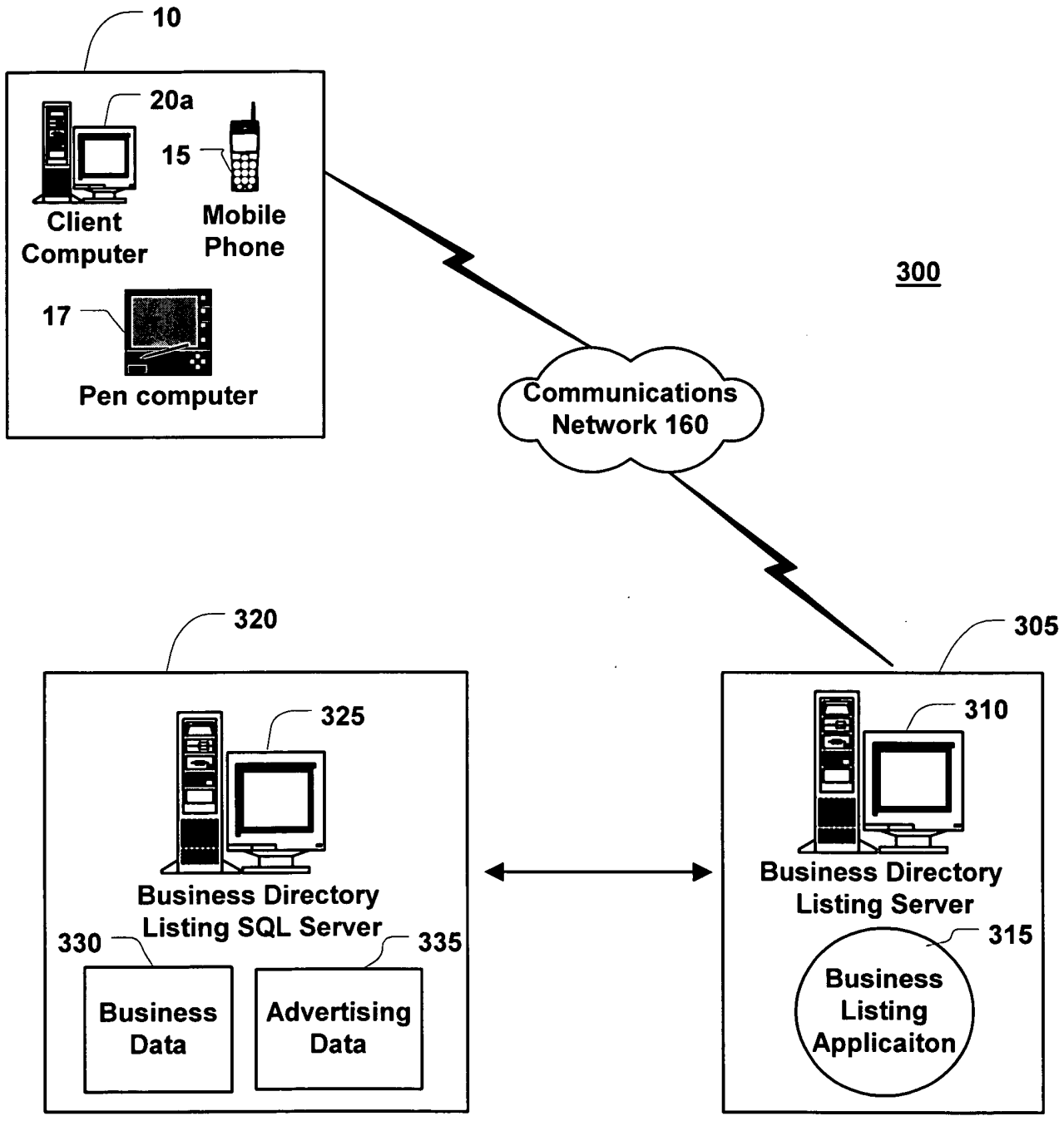
10
20a
15
Client Computer
Mobile Phone
17
Pen computer
300
Communications Network 160
320
325
Business Directory Listing SQL Server
330
335
Business Data
Advertising Data
305
310
Business Directory Listing Server
315
Business Listing Applicaiton

Figure 3

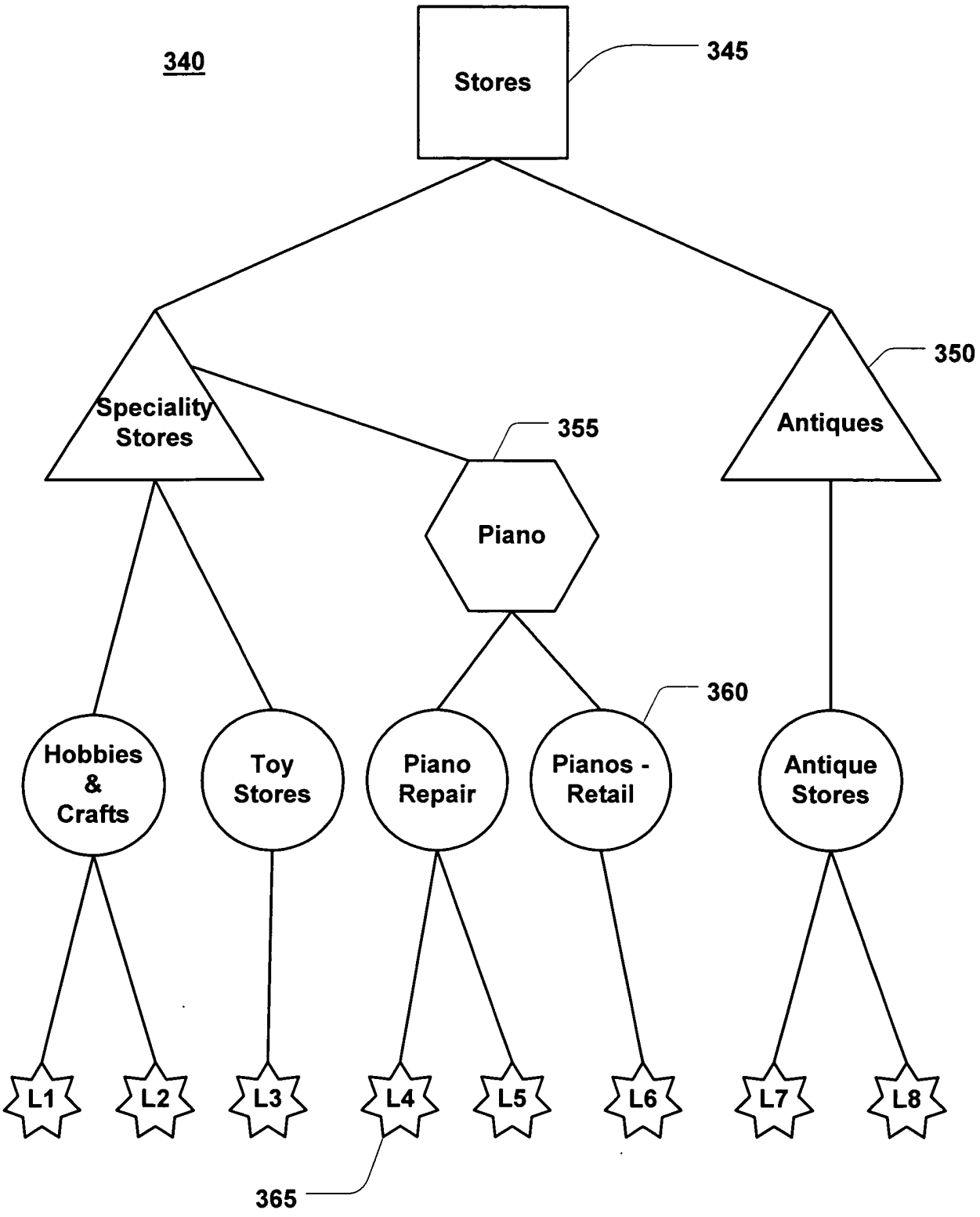
340
Stores
345
Speciality Stores
355
Antiques
350
Piano
360
Hobbies & Crafts
Toy Stores
Piano Repair
Pianos - Retail
Antique Stores
L1
L2
L3
L4
L5
L6
L7
L8
365

Figure 3A

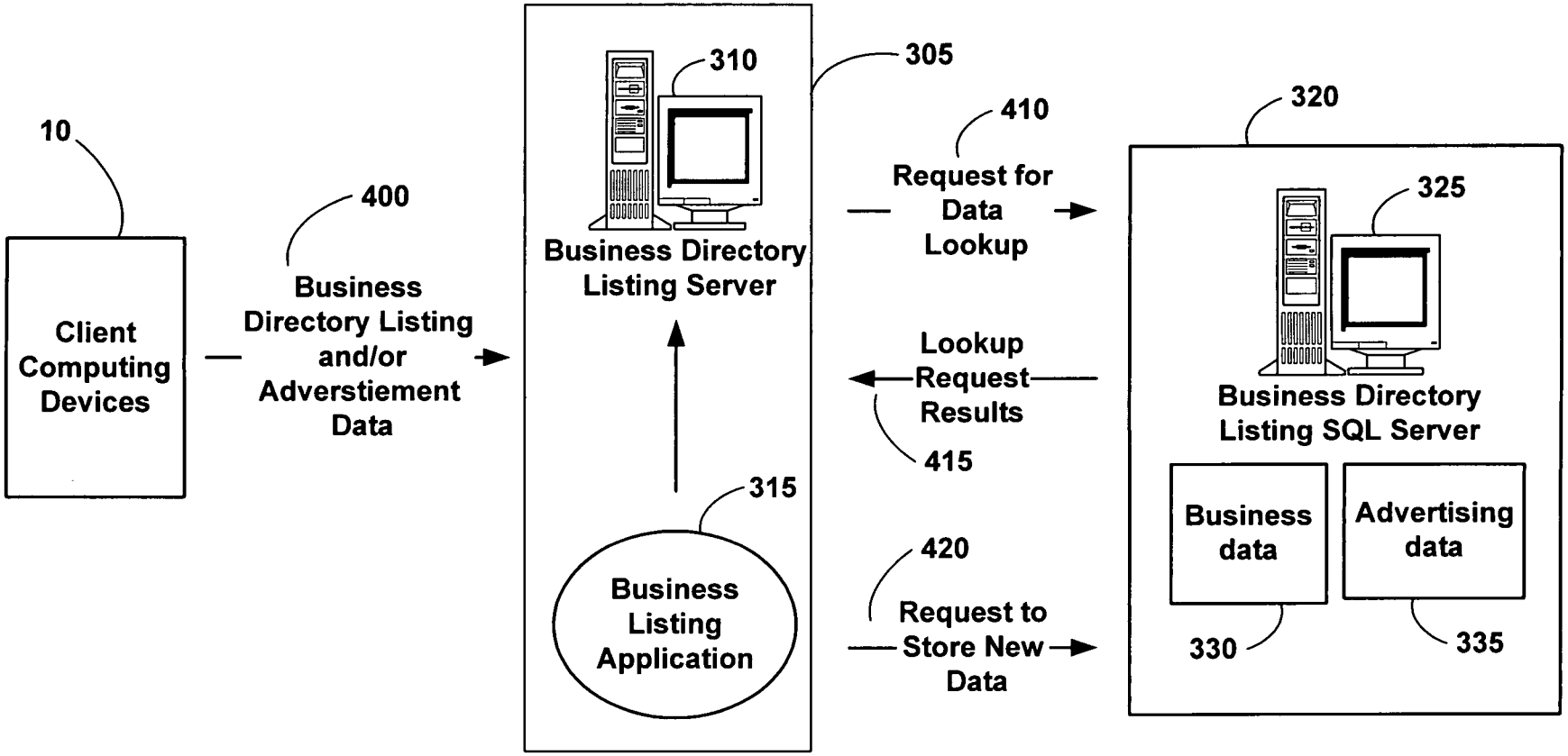
10
Client Computing Devices
400
Business Directory Listing and/or Adverstiement Data
310
305
Business Directory Listing Server
315
Business Listing Application
410
Request for Data Lookup
Lookup Request Results
415
420
Request to Store New Data
320
325
Business Directory Listing SQL Server
Business data
Advertising data
330
335

Figure 4

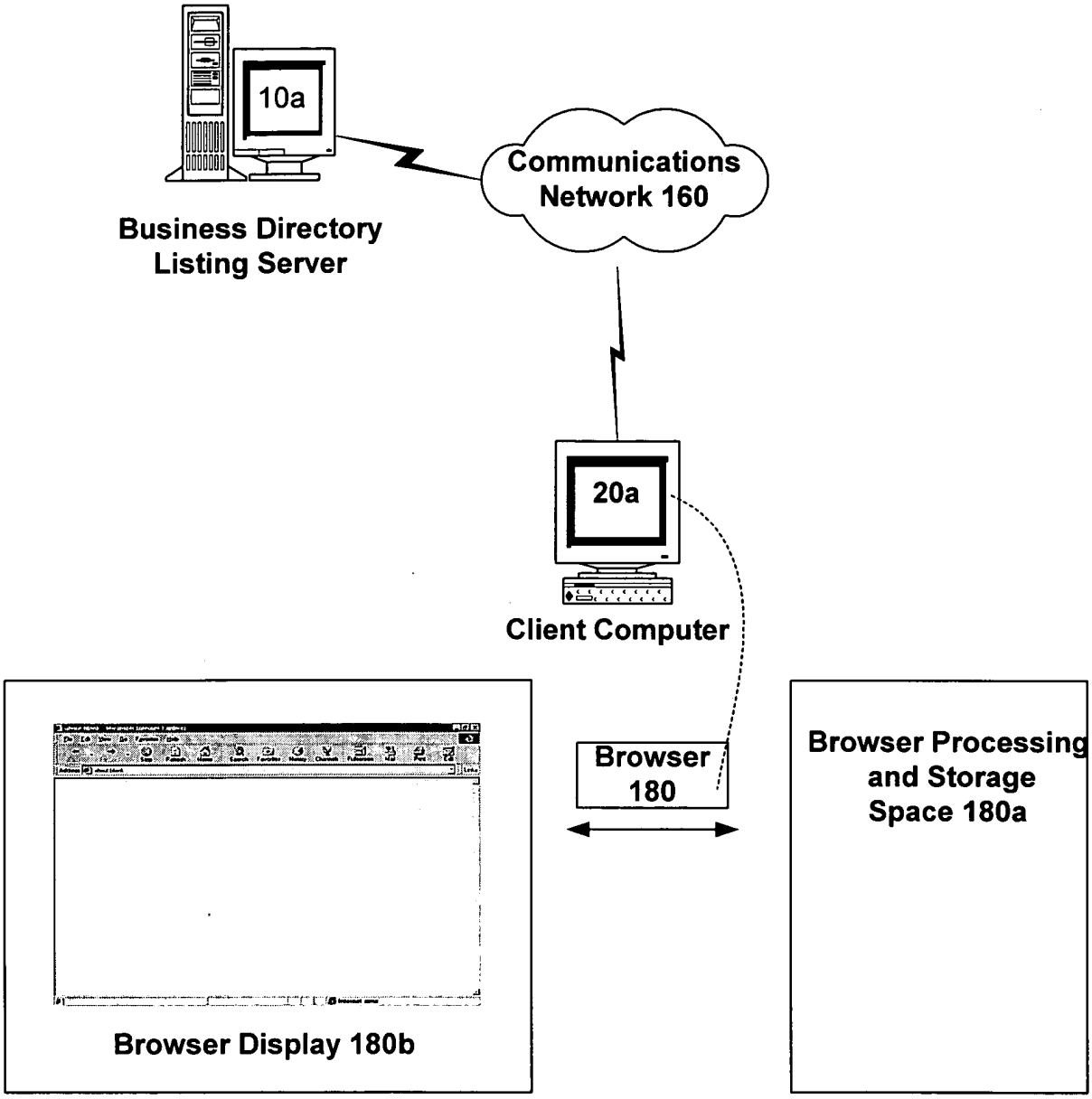
10a
Communications Network 160
Business Directory Listing Server
20a
Client Computer
Browser 180
Browser Processing and Storage Space 180a
Browser Display 180b

Figure 5

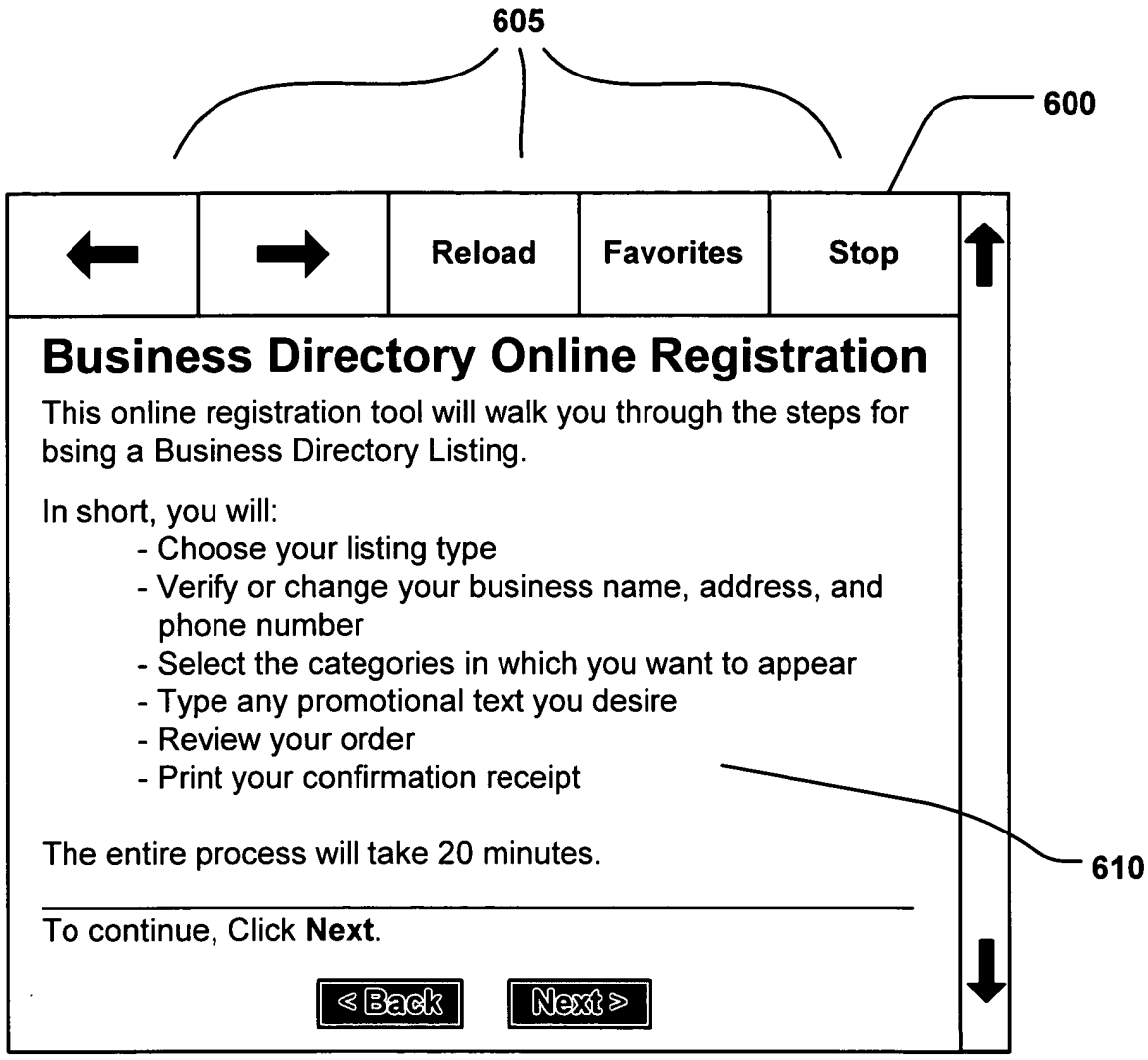
605
600
Reload
Favorites
Stop
Business Directory Online Registration
This online registration tool will walk you through the steps for bsing a Business Directory Listing.
In short, you will:
- Choose your listing type
- Verify or change your business name, address, and phone number
- Select the categories in which you want to appear
- Type any promotional text you desire
- Review your order
- Print your confirmation receipt
The entire process will take 20 minutes.
610
To continue, Click Next.
< Back
Next >

Figure 6

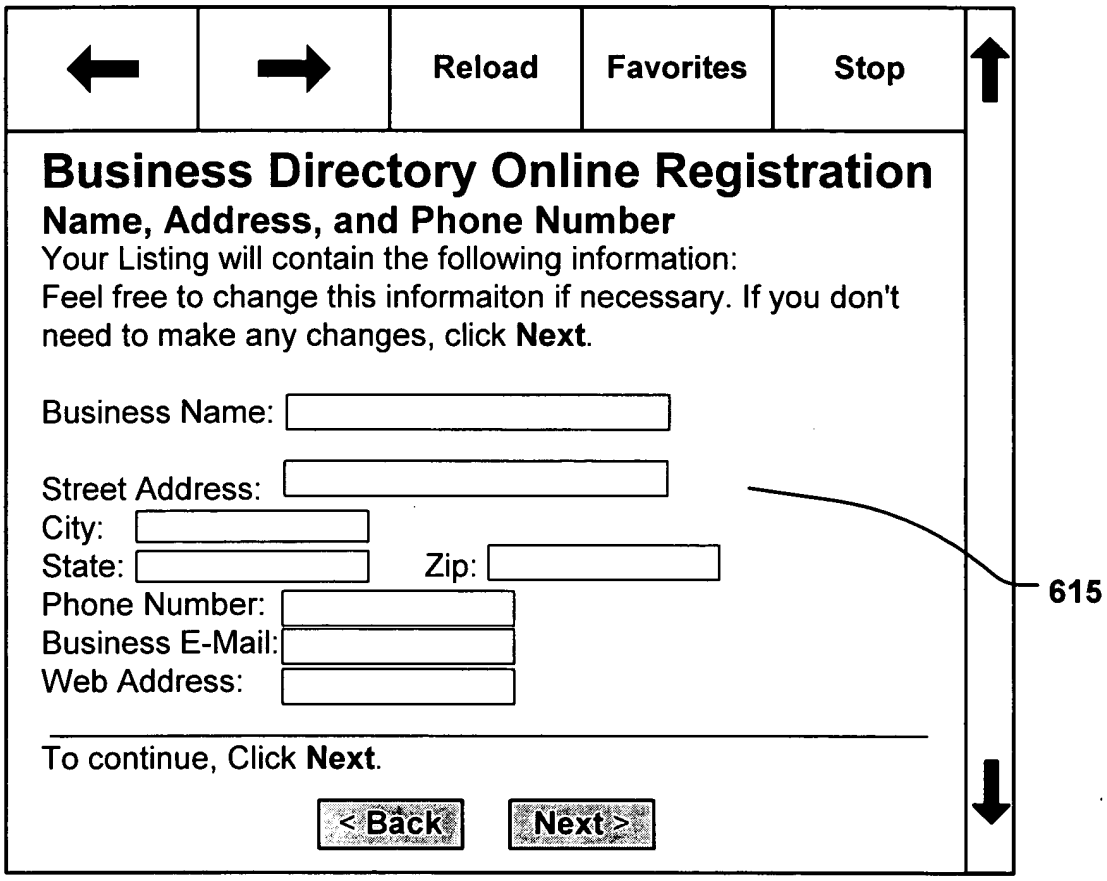
Reload
Favorites
Stop
Business Directory Online Registration
Name, Address, and Phone Number
Your Listing will contain the following information:
Feel free to change this informaiton if necessary. If you don't need to make any changes, click Next.
Business Name:
Street Address:
City:
State:
Zip:
Phone Number:
Business E-Mail:
Web Address:
To continue, Click Next.
< Back
Next >
615

Figure 6A

Reload
Favorites
Stop
Business Directory Online Registration
Category
Select the category that best describes your business:
Automotovie
Community
Dining
Electronics
Entertainment
Finance
Health & Fitness
Home & Garden
Services
Sports & Recreation
Stores
Travel
620
To continue, Click Next.

Figure 6B

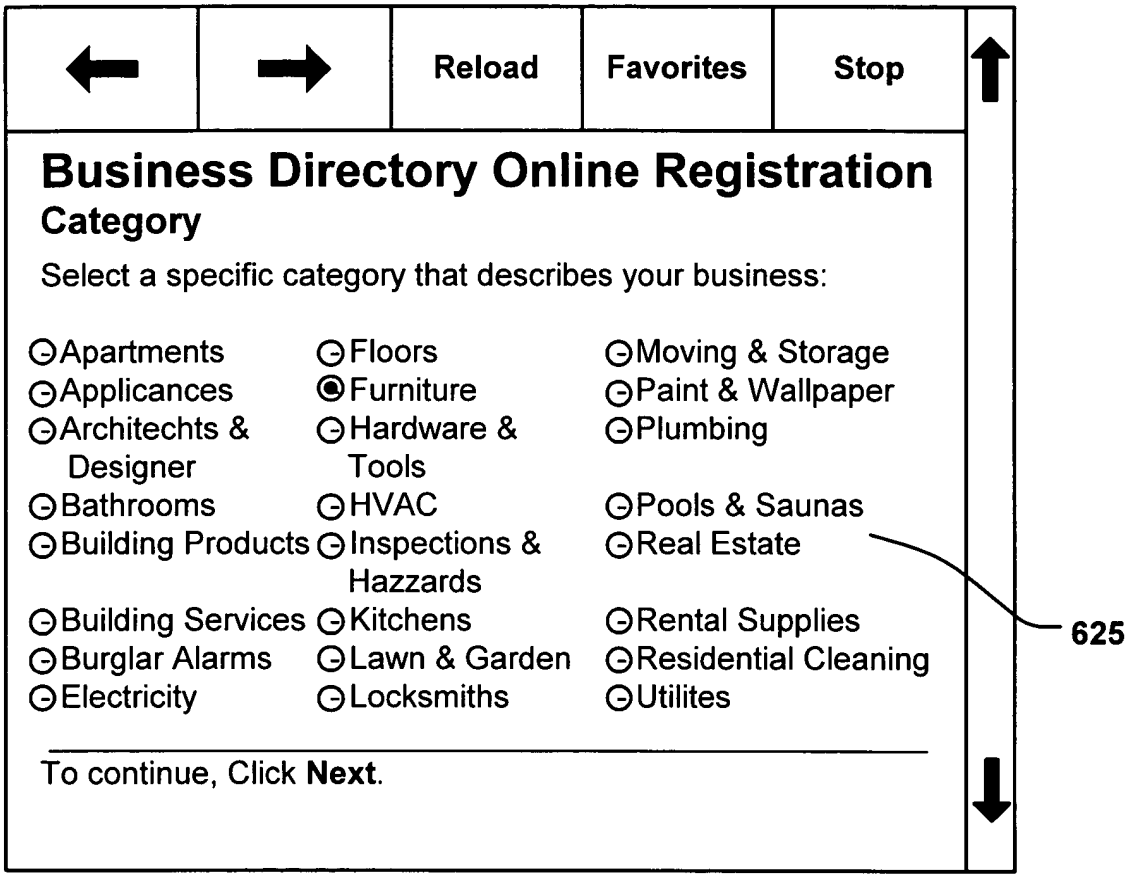
Reload
Favorites
Stop
Business Directory Online Registration
Category
Select a specific category that describes your business:
Apartments
Applicances
Architechts & Designer
Bathrooms
Building Products
Building Services
Burglar Alarms
Electricity
Floors
Furniture
Hardware & Tools
HVAC
Inspections & Hazzards
Kitchens
Lawn & Garden
Locksmiths
Moving & Storage
Paint & Wallpaper
Plumbing
Pools & Saunas
Real Estate
Rental Supplies
Residential Cleaning
Utilites
To continue, Click Next.
625

Figure 6C

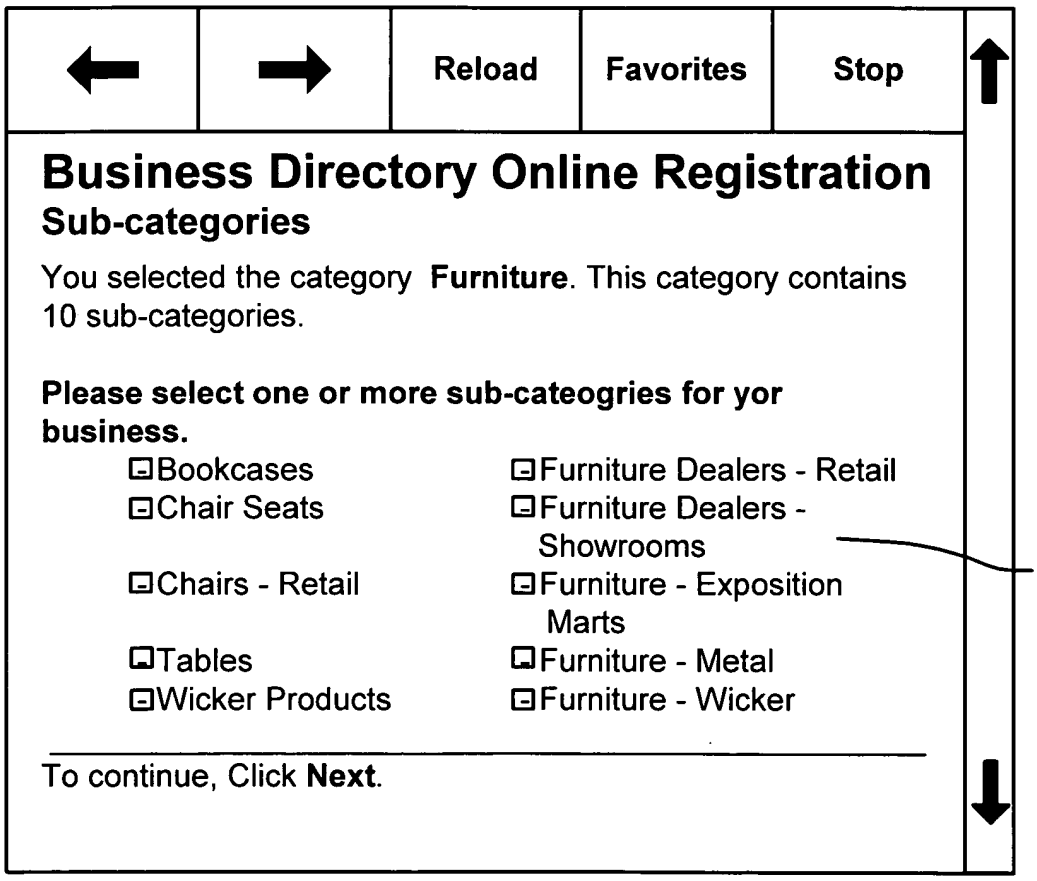
Reload
Favorites
Stop
Business Directory Online Registration
Sub-categories
You selected the category Furniture. This category contains 10 sub-categories.
Please select one or more sub-cateogries for yor business.
Bookcases
Chair Seats
Chairs - Retail
Tables
Wicker Products
Furniture Dealers - Retail
Furniture Dealers - Showrooms
Furniture - Exposition Marts
Furniture - Metal
Furniture - Wicker
To continue, Click Next.
630

Figure 6D

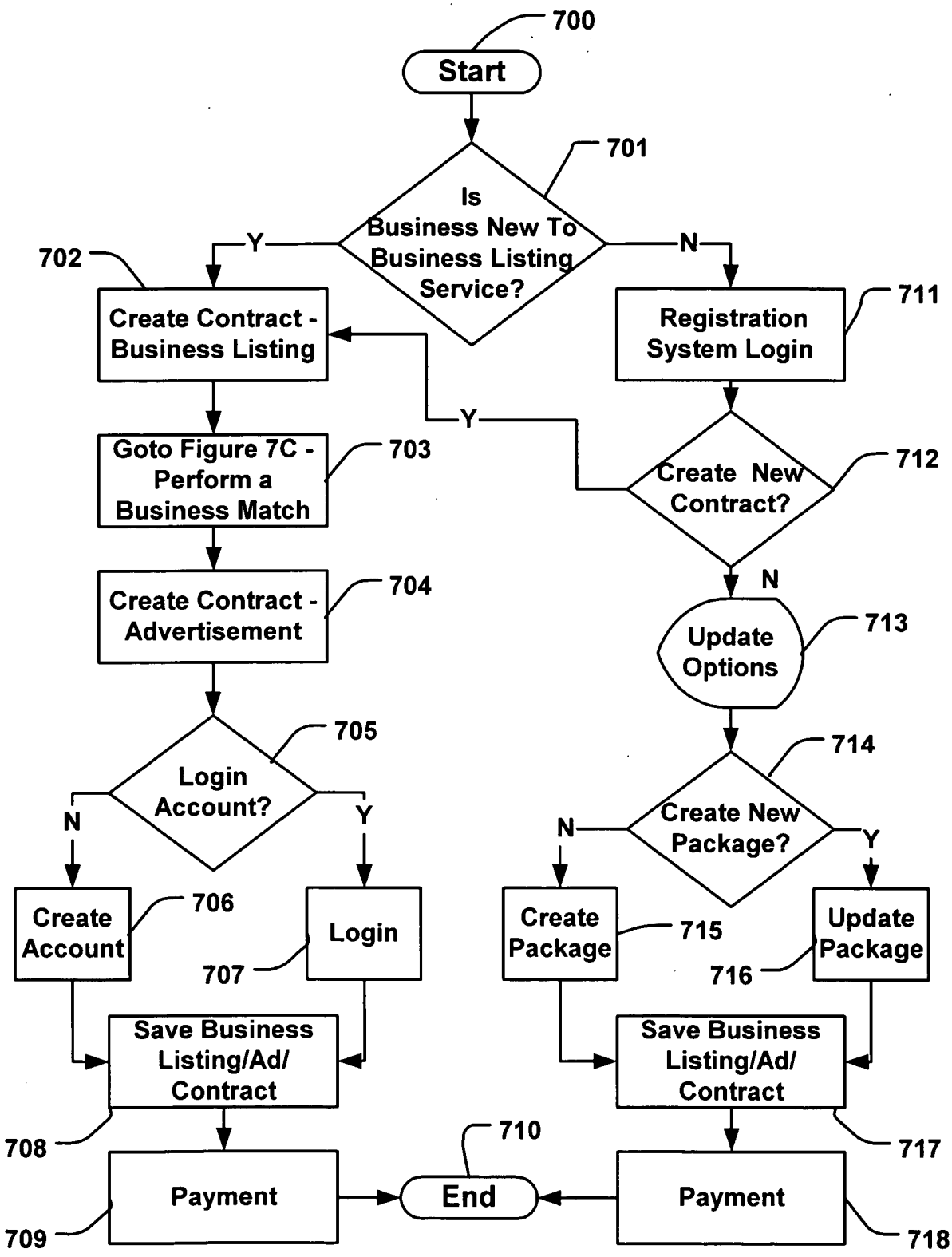
700
Start
701
Is Business New To Business Listing Service?
Y
N
702
Create Contract - Business Listing
711
Registration System Login
Y
Goto Figure 7C - Perform a Business Match
703
Create New Contract?
712
N
Create Contract - Advertisement
704
Update Options
713
705
Login Account?
714
Create New Package?
N
Y
N
Y
Create Account
706
Login
707
Create Package
715
Update Package
716
Save Business Listing/Ad/ Contract
Save Business Listing/Ad/ Contract
708
710
717
Payment
End
Payment
709
718

Figure 7

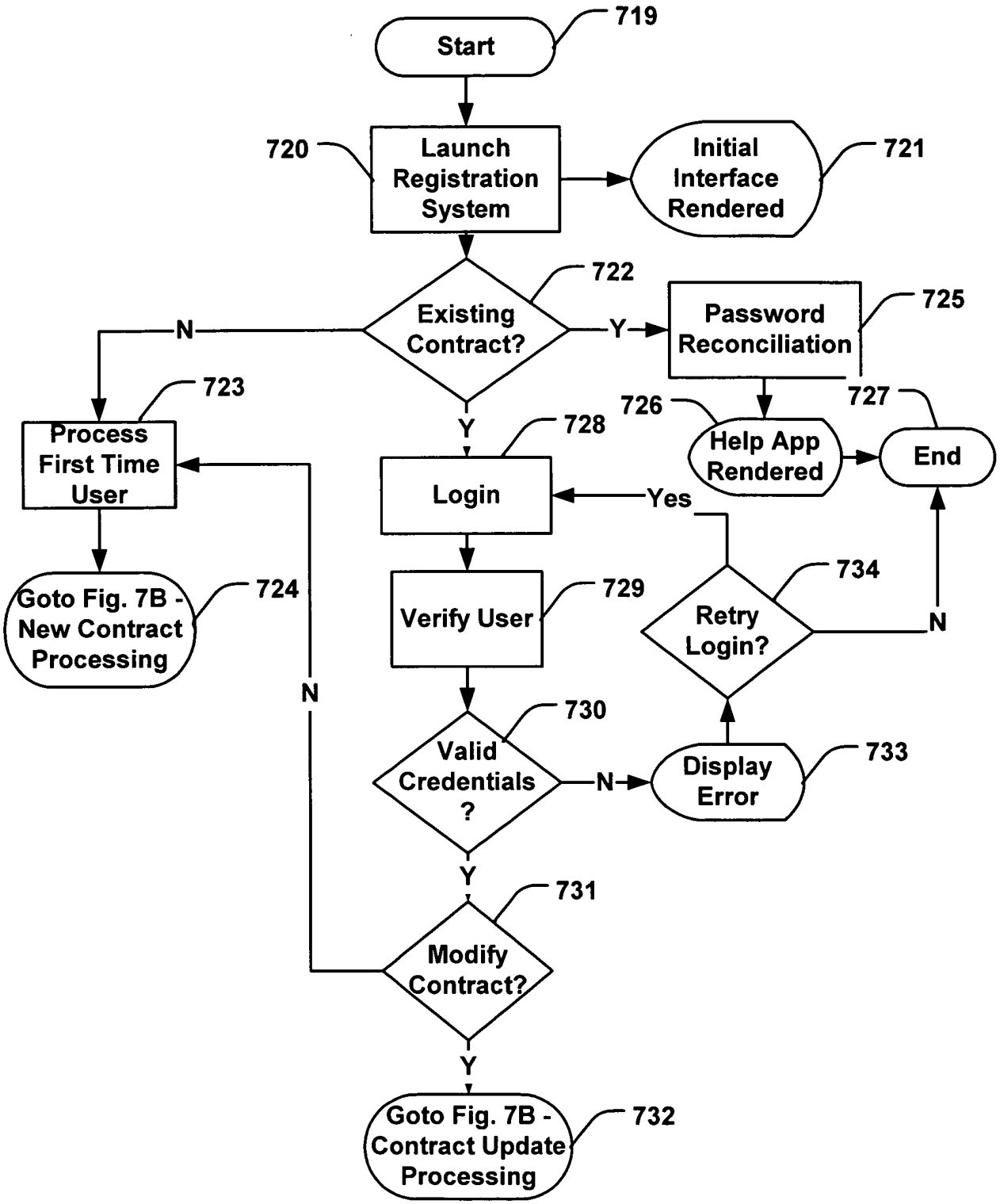
Start
719
Launch Registration System
720
Initial Interface Rendered
721
Existing Contract?
722
N
Y
Password Reconciliation
725
Process First Time User
723
Y
Login
728
Yes
Help App Rendered
726
End
727
Goto Fig. 7B - New Contract Processing
724
Verify User
729
Retry Login?
734
N
N
Valid Credentials ?
730
N
Display Error
733
Y
Modify Contract?
731
Y
Goto Fig. 7B - Contract Update Processing
732

Figure 7A

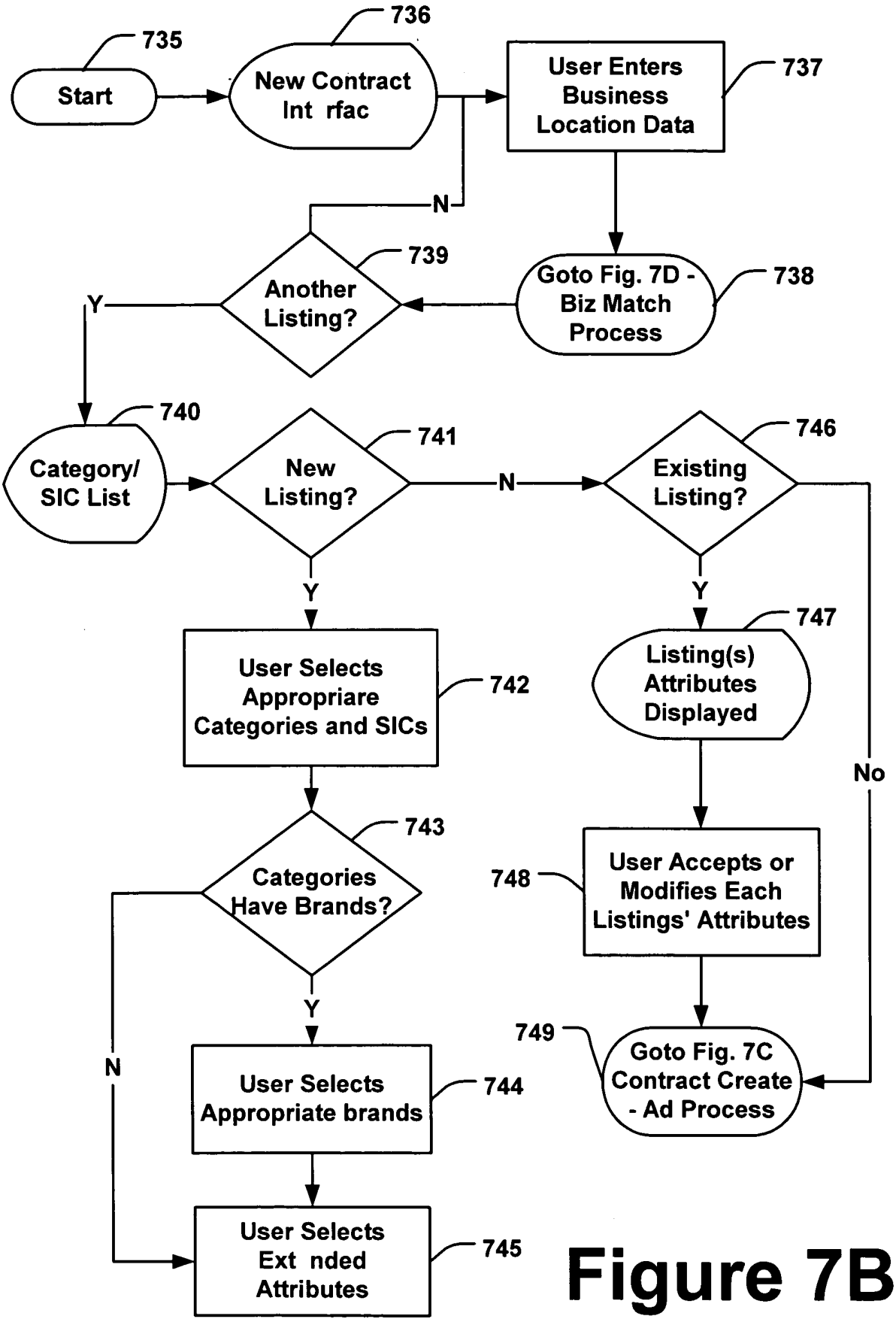
735
Start
736
New Contract Int rfac
User Enters Business Location Data
737
N
739
Another Listing?
Y
Goto Fig. 7D - Biz Match Process
738
740
Category/ SIC List
741
New Listing?
N
746
Existing Listing?
Y
Y
747
User Selects Appropriare Categories and SICs
742
Listing(s) Attributes Displayed
No
743
Categories Have Brands?
748
User Accepts or Modifies Each Listings' Attributes
Y
N
749
User Selects Appropriate brands
744
Goto Fig. 7C Contract Create - Ad Process
User Selects Ext nded Attributes
745

Figure 7B

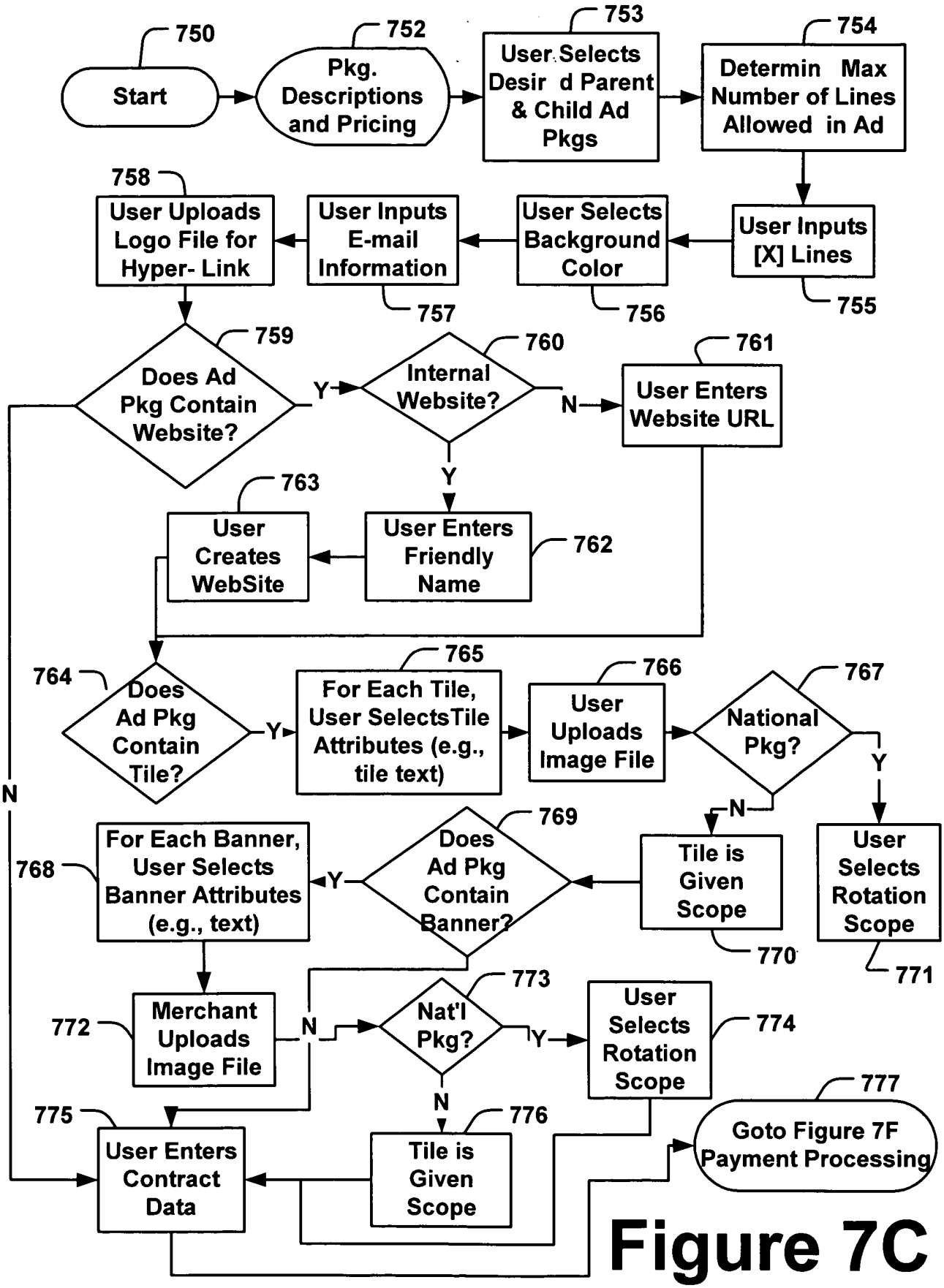
750
Start
752
Pkg. Descriptions and Pricing
753
User Selects Desir d Parent & Child Ad Pkgs
754
Determin Max Number of Lines Allowed in Ad
755
User Inputs [X] Lines
756
User Selects Background Color
757
User Inputs E-mail Information
758
User Uploads Logo File for Hyper- Link
759
Does Ad Pkg Contain Website?
Y
760
Internal Website?
N
761
User Enters Website URL
Y
762
User Enters Friendly Name
763
User Creates WebSite
764
Does Ad Pkg Contain Tile?
Y
765
For Each Tile, User SelectsTile Attributes (e.g., tile text)
766
User Uploads Image File
767
National Pkg?
Y
N
User Selects Rotation Scope
771
Tile is Given Scope
770
769
Does Ad Pkg Contain Banner?
Y
768
For Each Banner, User Selects Banner Attributes (e.g., text)
N
772
Merchant Uploads Image File
N
773
Nat'l Pkg?
Y
User Selects Rotation Scope
774
N
775
User Enters Contract Data
776
Tile is Given Scope
777
Goto Figure 7F Payment Processing

Figure 7C

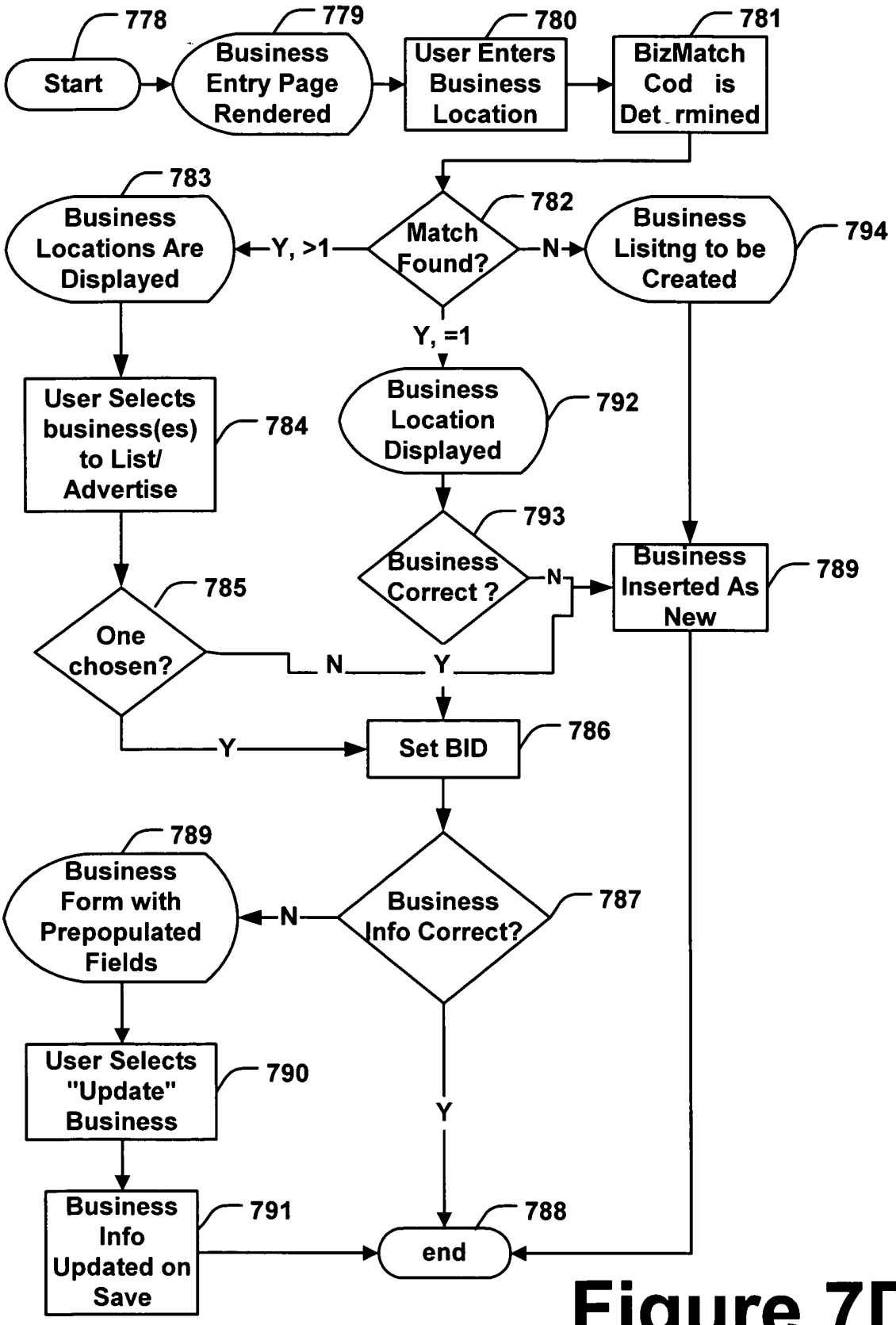
778
Start
779
Business Entry Page Rendered
780
User Enters Business Location
781
BizMatch Cod is Det rmined
782
Match Found?
Y, >1
N
Y, =1
783
Business Locations Are Displayed
784
User Selects business(es) to List/ Advertise
785
One chosen?
N
Y
786
Set BID
787
Business Info Correct?
N
Y
788
end
789
Business Form with Prepopulated Fields
790
User Selects "Update" Business
791
Business Info Updated on Save
792
Business Location Displayed
793
Business Correct ?
N
789
Business Inserted As New
794
Business Lisitng to be Created

Figure 7D

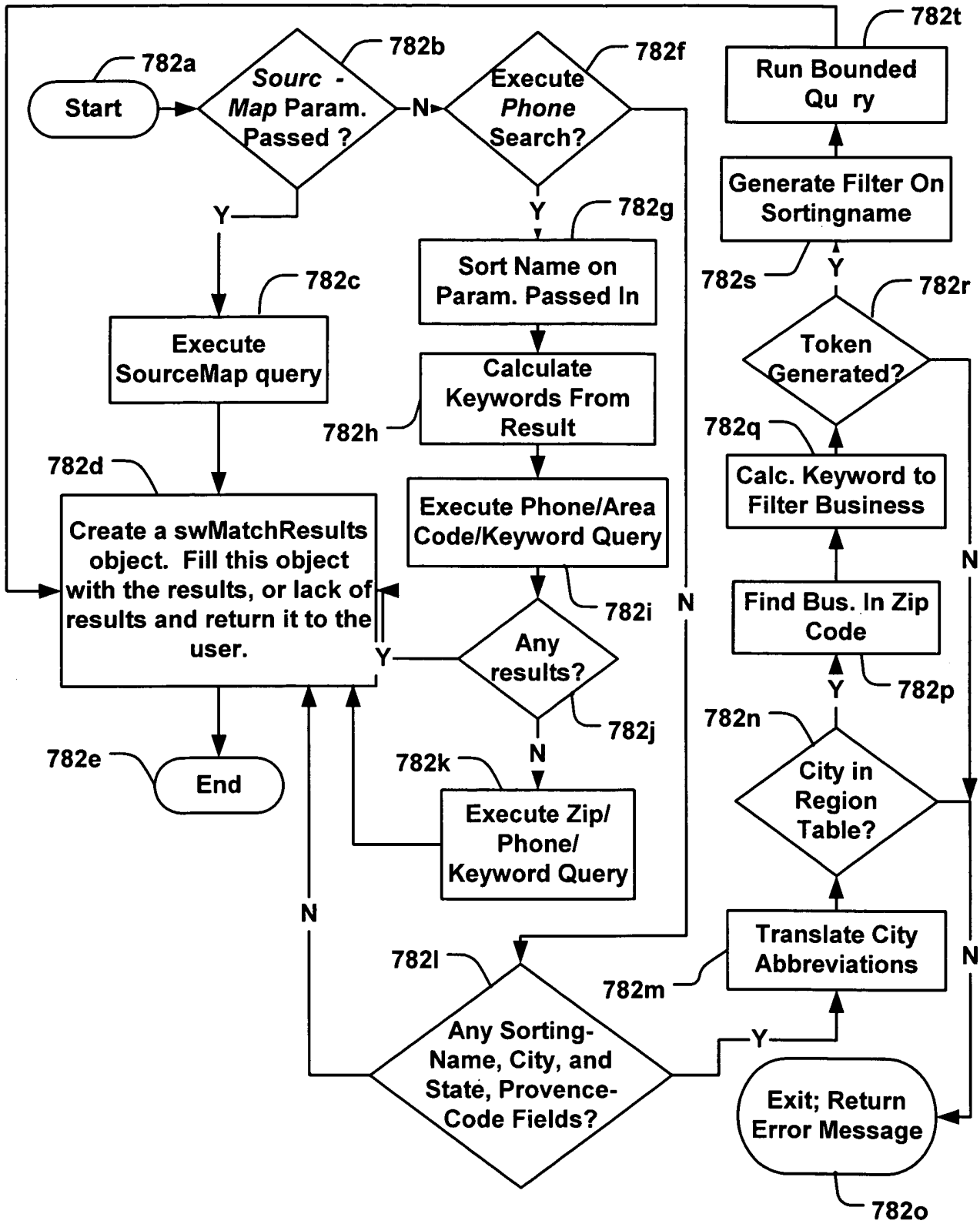
782a
Start
782b
Sourc - Map Param. Passed ?
N
782f
Execute Phone Search?
782t
Run Bounded Qu ry
Generate Filter On Sortingname
782s
Y
782r
Token Generated?
782q
Calc. Keyword to Filter Business
Find Bus. In Zip Code
782p
782n
City in Region Table?
N
Y
782g
Sort Name on Param. Passed In
Calculate Keywords From Result
782h
Execute Phone/Area Code/Keyword Query
782i
Any results?
782j
782k
Execute Zip/ Phone/ Keyword Query
782c
Execute SourceMap query
782d
Create a swMatchResults object. Fill this object with the results, or lack of results and return it to the user.
782e
End
782l
Any Sorting-Name, City, and State, Provence-Code Fields?
782m
Translate City Abbreviations
Exit; Return Error Message
782o

Figure 7E

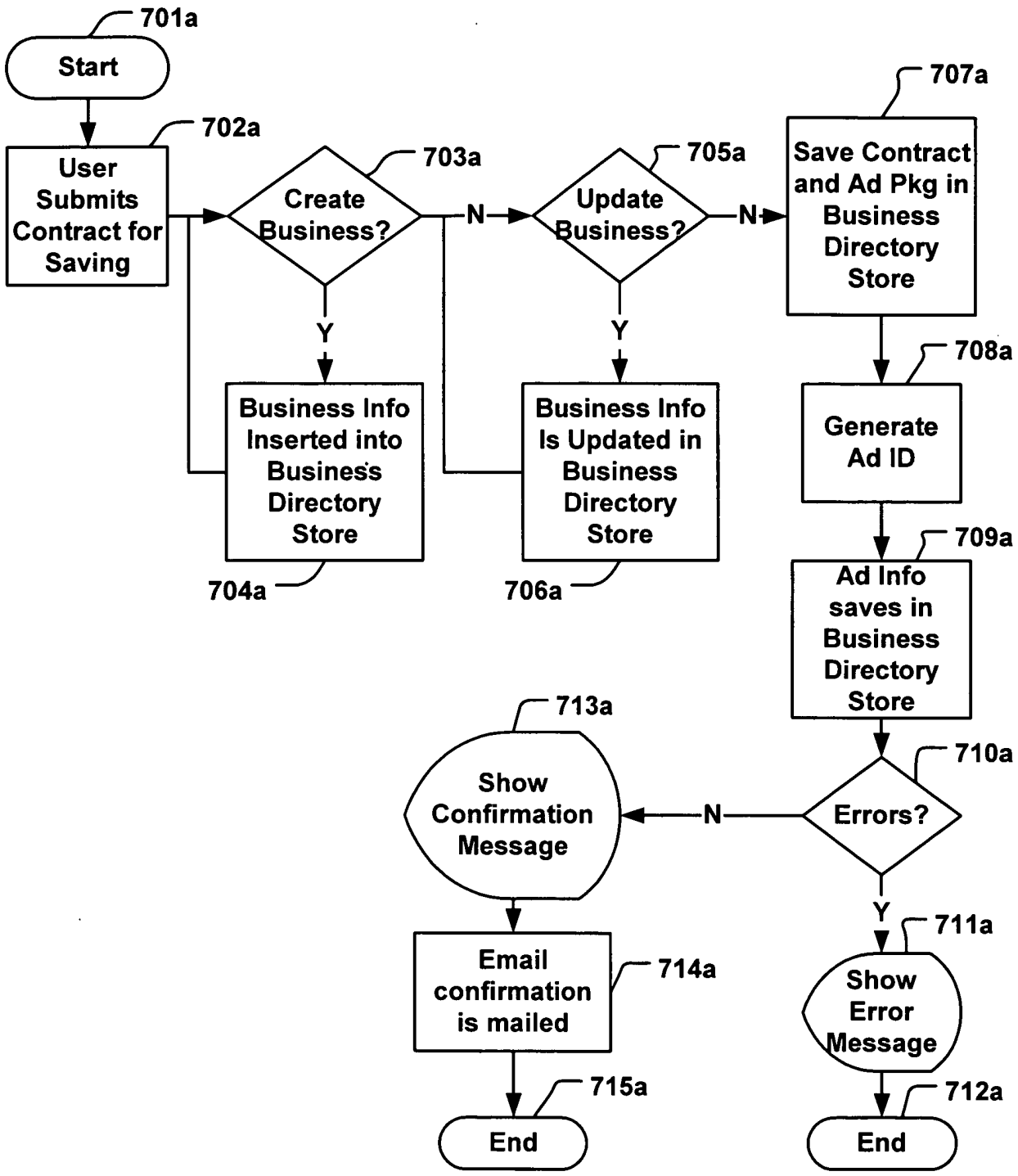
701a
Start
702a
User Submits Contract for Saving
703a
Create Business?
N
705a
Update Business?
N
707a
Save Contract and Ad Pkg in Business Directory Store
Y
Business Info Inserted into Business Directory Store
704a
Y
Business Info Is Updated in Business Directory Store
706a
708a
Generate Ad ID
709a
Ad Info saves in Business Directory Store
710a
Errors?
N
713a
Show Confirmation Message
Y
711a
Show Error Message
714a
Email confirmation is mailed
715a
End
712a
End

Figure 7F

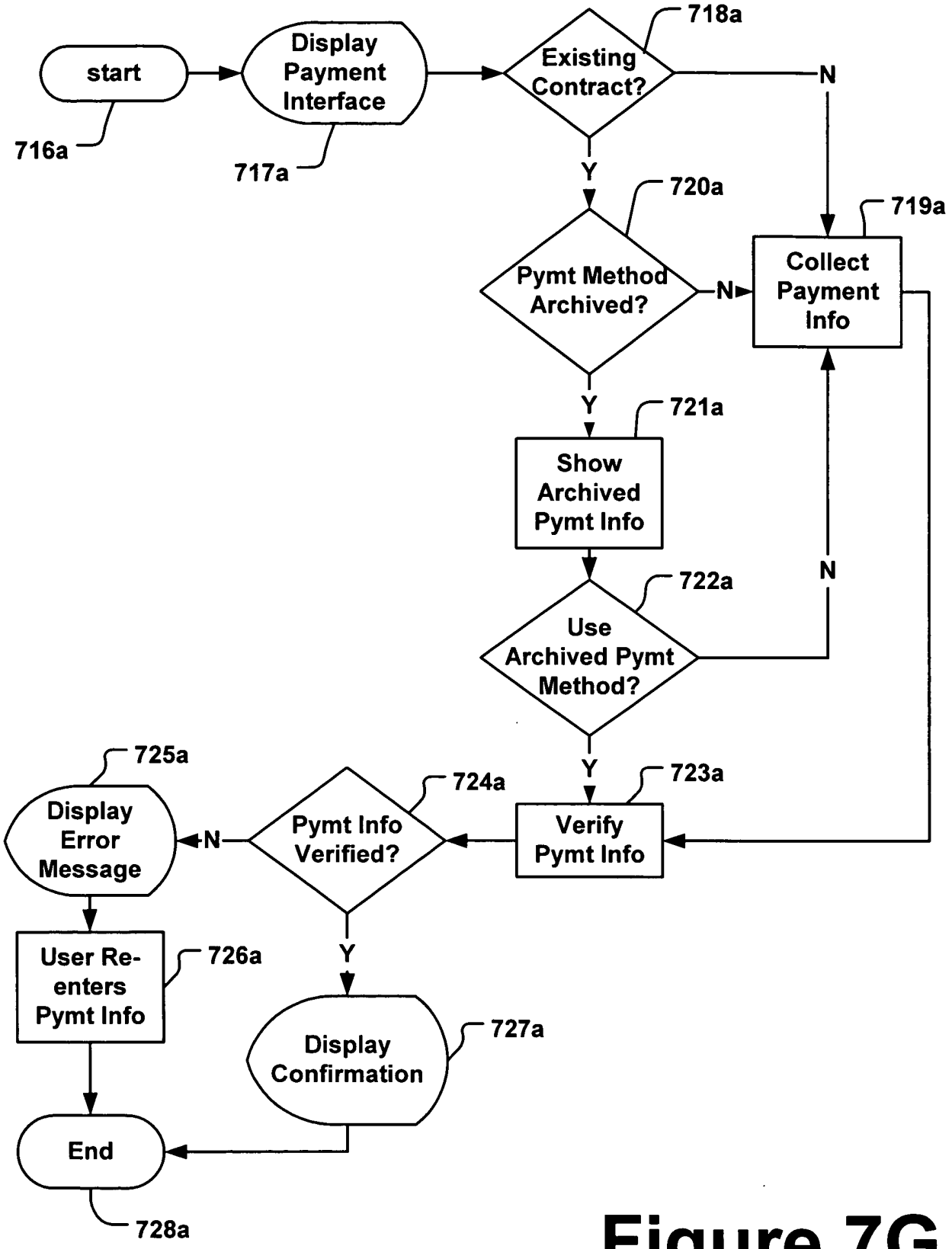
start
716a
Display Payment Interface
717a
Existing Contract?
718a
N
Y
Pymt Method Archived?
720a
N
Collect Payment Info
719a
Y
Show Archived Pymt Info
721a
Use Archived Pymt Method?
722a
N
Y
Verify Pymt Info
723a
Pymt Info Verified?
724a
N
Display Error Message
725a
Y
User Re-enters Pymt Info
726a
Display Confirmation
727a
End
728a

Figure 7G